FILE 'HOME' ENTERED AT 16:47:11 ON 08 FEB 2008

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chain nodes :

1 2 3 4 5 6 15 17 18

ring nodes :

7 8 9 10 11 12

chain bonds :

1-3 1-2 1-4 1-18 4-5 5-6 5-15 11-17

ring bonds :

7-8 7-12 8-9 9-10 10-11 11-12

exact/norm bonds :

 $1-3 \quad 1-2 \quad 1-4 \quad 1-18 \quad 4-5 \quad 5-6 \quad 5-15 \quad 7-8 \quad 7-12 \quad 8-9 \quad 9-10 \quad 10-11 \quad 11-12 \quad 11-17$

isolated ring systems :

containing 7 :

G1:H,Ak

G2:H,O

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:Atom 8:Atom 9:Atom

10:Atom 11:Atom 12:Atom 13:CLASS 15:CLASS 17:CLASS 18:CLASS

L8 STRUCTURE UPLOADED

=> dis 18

L8 HAS NO ANSWERS

L8 STR

```
G1

Manager Ma
```

G1 H, Ak G2 H, O

=> s 18 sam

L9 0 SEA SSS SAM L8

=> s 18 full

L10 26 SEA SSS FUL L8

=> file caplus

=> s 110

L11 5 L10

(PD<20031100)

L12 4 L11 AND PD< NOV 2003

=> dis 112 ibib abs hitstr

L12 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2001:904191 CAPLUS Full-text

DOCUMENT NUMBER: 136:37770

TITLE: Preparation of organophosphorous hydroxamic acid

derivatives as herbicides

INVENTOR(S):
Jomaa, Hassan

PATENT ASSIGNEE(S): Jomaa Pharmaka GmbH, Germany

SOURCE: PCT Int. Appl., 86 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PA'	PATENT NO.						KIND DATE			APPL	ICAT	ION I	NO.					
WO	2001094358			A1	_	20011213		,	WO 2	001-	EP65.		20010608 <					
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		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	
		HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	KΖ,	LC,	LK,	LR,	LS,	
		LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PL,	PT,	RO,	
		RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	
		VN,	YU,	ZA,	ZW,	ΑM,	ΑZ,	BY,	KG,	KΖ,	MD,	RU,	ΤJ,	TM				
	RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,	
		DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,	
		ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG			
DE	DE 10127936					A1 20011213				DE 2001-10127936					20010608 <			
PRIORIT	PRIORITY APPLN. INFO.:									DE 2000-10028367					A 20000608			
										DE 2000-10029800					A 20000616			

OTHER SOURCE(S):

CASREACT 136:37770; MARPAT 136:37770

GΙ

$$\begin{array}{c|c}
R1 & O & R7 & O \\
\hline
0 & R3 & R4 & R9
\end{array}$$
I

AB The invention relates to the preparation and use of title compds. I (A =selected from the group comprised of CR5R6, CR5R6CH(OH), CR5R6CO, COCR5R6; R1 = H, (un)substituted alkyl, alkenyl, alkynyl, acyl, cycloalkyl, alkylcycloalkyl, heterocyclic, etc.; R2-R7 = same or different H, (un) substituted alkyl, alkenyl, alkynyl, aryl, acyl, cycloalkyl, alkylcycloalkyl, aralkyl, heterocyclic, etc.; R8-R9 = same or different H, (un) substituted alkyl, alkenyl, alkynyl, aryl, acyl, cycloalkyl, alkylcycloalkyl, aralkyl, heterocyclic, etc.), is described. Thus, reaction of glycine Me ester hydrochloride with pentanal followed by H3PO3 phosphonylation and sequential treatment with NH2OH gave title compound, HONHCOCH2NHCH(Bu)P(O)(OH)2. The prepared compds. are used as herbicides for selective pre- and post-emergent control of weeds in useful plant cultures.

ΙT 380330-00-7P 380330-02-9P

> RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of organophosphorous hydroxamic acid derivs. useful as herbicide)

RN 380330-00-7 CAPLUS

Phosphinic acid, [[[2-(ethylhydroxyamino)-2-oxoethyl](2pyridinylmethyl)amino]methyl]methyl- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & \\ & & \\$$

380330-02-9 CAPLUS RN

CN Phosphinic acid, [[[2-(hydroxyamino)-2-oxoethyl](2pyridinylmethyl)amino]methyl]methyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> dis 112 2-4 ibib abs hitstr

L12 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2001:903861 CAPLUS Full-text

DOCUMENT NUMBER: 136:37769

TITLE: Preparation of organophosphorous hydroxamic acid

derivatives useful for producing medicaments

INVENTOR(S):
Jomaa, Hassan

PATENT ASSIGNEE(S): Jomaa Pharmaka GmbH, Germany

SOURCE: PCT Int. Appl., 87 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.						KIND DATE			APPLICATION NO.						DATE			
— - W(WO 2001093872					A1 20011213			WO 2001-EP6539						20010608 <			
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	
		HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	KΖ,	LC,	LK,	LR,	LS,	
		LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PL,	PT,	RO,	
		RU,	SD,	SE,	SG,	SI,	SK,	SL,	ΤJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	
		VN,	YU,	ZA,	ZW,	ΑM,	ΑZ,	BY,	KG,	KΖ,	MD,	RU,	ΤJ,	TM				
	RW:	GH,	GM ,	KΕ,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	ΑT,	BE,	CH,	CY,	
		DE,	DK,	ES,	FΙ,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,	
		ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GW,	${ m ML}$,	MR,	ΝE,	SN,	TD,	ΤG			
DI	E 1012	7922			A1		2001	1213	DE 2001-10127922						20010608 <			
PRIORI	PRIORITY APPLN. INFO.:								DE 2000-10028367						A 2	0000	608	
OTHER S	OTHER SOURCE(S):					REAC	T 13	6 : 37	769; MARPAT 136:37769									
GI																		

$$\begin{array}{c|c}
R^1 & O & R^7 & O \\
R^2 & R^3 & R^4 & R^9 \\
\end{array}$$

The invention relates to the preparation and use of title compds. I (A = selected from the group comprised of CR5R6, CR5R6CH(OH), CR5R6CO, COCR5R6; R1 = H, (un)substituted alkyl, alkenyl, alkynyl, acyl, cycloalkyl, alkylcycloalkyl, heterocyclic, etc.; R2-R7 = same or different H, (un)substituted alkyl, alkenyl, alkynyl, aryl, acyl, cycloalkyl, alkylcycloalkyl, aralkyl, heterocyclic, etc.; R8-R9 = same or different H, (un)substituted alkyl, alkenyl, alkynyl, aryl, acyl, cycloalkyl, alkylcycloalkyl, aralkyl, heterocyclic, etc.), is described. Thus, reaction of glycine Me ester hydrochloride with pentanal followed by H3PO3

phosphonylation and sequential treatment with NH2OH gave title compound, HONHCOCH2NHCH(Bu)P(O)(OH)2. Said compds. are used for producing medicaments for the therapeutic and prophylactic treatment of infections in humans and animals caused by viruses, bacteria, fungi and parasites.

IT 380330-00-7P 380330-02-9P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of organophosphorous hydroxamic acid derivs. useful for producing medicaments)

RN 380330-00-7 CAPLUS

CN Phosphinic acid, [[[2-(ethylhydroxyamino)-2-oxoethyl](2-pyridinylmethyl)amino]methyl]methyl- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & & \\ & & & \\ &$$

RN 380330-02-9 CAPLUS

CN Phosphinic acid, [[[2-(hydroxyamino)-2-oxoethyl](2-pyridinylmethyl)amino]methyl]methyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1993:603630 CAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 119:203630

TITLE: Preparation and GABA antagonistic property of

aminoalkanephosphinic acids and their salts

INVENTOR(S): Mickel, Stuart John
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Eur. Pat. Appl., 18 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: German FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE

TD.	767174			7. 1	10070400	ED	1006 110725		10001110	
EP	767174			A1	19970409	EP	1996-118735		19921112	<
	R: AT	, BE,	CH,	DE,	DK, ES, FR,	GB, GE	R, IE, IT, LI,	LU, N	NL, PT, SE	
CA	2083307			A1	19930522	CA	1992-2083307		19921119	<
AU	9228504			Α	19930527	AU	1992-28504		19921119	<
AU	662938			В2	19950921					
JP	0524706	9		Α	19930924	JP	1992-310082		19921119	<
US	5376684			Α	19941227	US	1992-979513		19921119	<
NO	9204479			Α	19930524	NO	1992-4479		19921120	<
ZA	9208979			Α	19940415	ZA	1992-8979		19921120	<
US	5500418			Α	19960319	US	1994-308040		19940916	<
AU	9540456			A	19960426	AU	1995-40456		19951214	<
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NO	9704116			Α	19930524	NO	1997-4116		19970908	<
NO	9704117			Α	19930524	NO	1997-4117		19970908	<
PRIORIT?	APPLN.	INFO	.:			СН	1991-3404	A	19911121	
						EP	1992-810879	A3	3 19921112	
						US	1992-979513	A3	3 19921119	

OTHER SOURCE(S): MARPAT 119:203630

The preparation and GABA antagonistic property (no data) of aminoalkanephosphinic acids, RP(O)(OH)CH2CHR1CH2NR2R3 [R = Bu, diethoxymethyl, cyclohexylmethyl, cyclohex-3-enylmethyl, PhCH2, 4-chlorobenzyl, 4-methylbenzyl, 4-methoxybenzyl, etc.; R1, R2, R3 = H, OH, (un)substituted Ph, etc.] and their salts is claimed. Thus, condensation of 3,5-Cl2C6H3CHO with H2N(CH2)3P(O)(OEt)CH(OEt)2 and hydride reduction of the resulting Schiff base gave 3,5-Cl2C6H3CH2NH(CH2)3P(O)(OEt)CH(OEt)2, which in EtOH was treated with LiOH in H2O at 60° for 24 h to give the title compound 3,5-Cl2C6H3CH2NH(CH2)3P(O)(OH)CH(OEt)2. Pharmaceutical compns. containing the title compds. are described.

IT 149936-25-4P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as GABA antagonist)

RN 149936-25-4 CAPLUS

CN Phosphinic acid, (diethoxymethyl)[3-[(3-pyridinylmethyl)amino]propyl]-(9CI) (CA INDEX NAME)

L12 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1992:152013 CAPLUS Full-text

DOCUMENT NUMBER: 116:152013

TITLE: Preparation of (3-aminopropyl)phosphinates as

antiepileptics

INVENTOR(S): Marescaux, Christian; Bernasconi, Raymond; Schmutz,

Markus; Froestl, Wolfgang; Mickel, Stuart J.

PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz. SOURCE: Eur. Pat. Appl., 49 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

EP 463560	A1	19920102	EP 1991-110074	19910619 <
EP 463560	B1	19951025		
R: AT, BE, CI	H, DE, DK	ES, FR,	GB, GR, IT, LI, LU, NL,	
IL 98502	A	19980405	IL 1991-98502	19910614 <
IL 114631	A	19981206	IL 1991-114631	19910614 <
AT 129500	T	19951115	AT 1991-110074	19910619 <
ES 2079520	Т3	19960116	ES 1991-110074	19910619 <
CA 2045077	A1	19911223	CA 1991-2045077	19910620 <
CA 2045077	С	20020820		
HU 59148	A2	19920428	HU 1991-2064	19910620 <
US 5229379	A	19930720	US 1991-718503	19910620 <
NO 9102429	A	19911223	NO 1991-2429	19910621 <
NO 302476	B1	19980309		
AU 9179220	A	19920102	AU 1991-79220	19910621 <
AU 641772	B2	19930930		
ZA 9104791	A	19920325	ZA 1991-4791	19910621 <
JP 04243829	A	19920831	JP 1991-150647	19910621 <
JP 3222487	B2	20011029		
KR 219315	B1	19991001	KR 1991-10289	19910621 <
US 5407922	A	19950418	US 1993-56726	19930503 <
US 5545631	A	19960813	US 1995-375878	19950120 <
ORITY APPLN. INFO.:			СН 1990-2092	A 19900622
			CH 1991-440	A 19910213
			СН 1991-1199	A 19910422
			IL 1991-98502	A 19910614
			US 1991-718503 .	A3 19910620
			US 1993-56726 .	A3 19930503

OTHER SOURCE(S): MARPAT 116:152013

AB R(HO)P(O)CR1R2CR3R4CHR5NR6R7 [I; R = (cyclo)aliphatyl, cycloaliphatylaliphatyl, araliphatyl; R1, R2, R3, R5 = H; R4 = H, OH; R6 = araliphatyl, heteroarylaliphatyl; R7 = R6, H, alkyl] were prepared Thus, H2N(CH2)3P(O)(OEt)CH(OEt)2 was stirred 30 min with 4-ClC6H4CHO in MeOH; NaBH3CN in MeOH was added and the mixture was stirred 3 h to give the benzylated amine, which was saponified with LiOH in H2O/EtOH to give 4-ClC6H4CH2NH(CH2)3P(O)[CH(OEt)2]OH. 3-Aminopropyl(cyclohexylmethyl)phosp hinic acid at 400 mg/kg i.p. in epileptic rats eliminated spike and wave discharges after 20 min.

IT 139667-78-0P 139668-25-0P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as antiepileptic)

RN 139667-78-0 CAPLUS

CN Phosphinic acid, [2-hydroxy-3-[(2-pyridinylmethyl)amino]propyl](phenylmethyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 139668-25-0 CAPLUS

CN Phosphinic acid, [2-hydroxy-3-[(2-pyridinylmethyl)amino]propyl](phenylmethyl)-, monohydrochloride, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

HCl

=> s 111 not 112

L13 1 L11 NOT L12

=> dis 113 ibib abs

L13 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:523469 CAPLUS $\underline{\text{Full-text}}$

DOCUMENT NUMBER: 143:43971

TITLE: Preparation of phosphinic acid derivatives and their

use as pharmaceuticals

INVENTOR(S): Froestl, Wolfgang

PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis Pharma G.m.b.H.

SOURCE: PCT Int. Appl., 16 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA.			DATE		APPLICATION NO.						DATE							
WO						A1 20050			 6 WO 2004-EP13177						20041119			
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,	
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	KP,	KR,	KΖ,	LC,	
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NΙ,	
		NO,	NΖ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	
		ΤJ,	TM,	TN,	TR,	TΤ,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW	
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	
		ΑZ,	BY,	KG,	KΖ,	MD,	RU,	ΤJ,	TM,	ΑT,	BE,	ВG,	CH,	CY,	CZ,	DE,	DK,	
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		,	SN,	,														
					A1 20050616 AU 2004-295060									2	20041119			
	2004						2007											
	2545																	
EP	1687	319			A1		2006	0809		EP 2	004-	8196	05		2	0041	119	
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		,	•	,	,	,	TR,		,			•						
	1882						2006									0041		
BR	2004	0162	26		A		2007	0102	BR 2004-16226						20041119			
									JP 2006-540346						20041119			
									US 2006-576972									
MX	2006	PA05														0060	519	
IN	2006	CN01	778		А		2007	0706		IN 2	006-	CN17	78		2	0060	519	
RIORIT	Y APP	LN.	INFO	.:						_			6			0031		
										-		_	177		W 2	0041	119	
THER SO	HER SOURCE(S):						CASREACT 143:43971; MARPAT 143:43971											

The present invention relates to phosphinic acid derivs., RP(O)(OH)CH2CHR1CH2NR2R3 (R = C3-5 alkyl, di(C1-4)alkoxymethyl, (C3-6)cycloalkyl(C1-4)alkyl or benzyl, etc.; R1 = H, OH; R2 = oxydihydropyridylmethyl, pyridylmethyl, etc.; R3 = H, C1-4 alkyl, or a salt thereof), as GABAB antagonists, their preparation, their use as pharmaceuticals and pharmaceutical compns. containing them. Thus, reaction of Et {3-[(6-methoxy-3-pyridylmethyl)amino]-2-(S)-hydroxypropyl}-(cyclohexylmethyl)phosphinate (preparation given) with NaOH in EtOH/H2O gave phosphinic acid hydrochloride which on treatment with propylene oxide in MeOH gave title compound, {3-[(6-methoxy-3-pyridylmethyl)amino]-2-(S)-hydroxypropyl}-(cyclohexylmethyl)phosphinic acid.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> log y STN INTERNATIONAL LOGOFF AT 16:52:46 ON 08 FEB 2008